

# ABSTRACT OF THE DISCLOSURE

BaTiO<sub>3</sub> - PbTiO<sub>3</sub> series single crystal is single-crystallized by heating BaTiO<sub>3</sub> - PbTiO<sub>3</sub> compact powder member or sintered member having a smaller Pb-  
5 containing mol number than Ba-containing mol number, while keeping the powder or substance in non-molten condition. In this way, this single crystal can be manufactured at a crystal growing speed faster still and stabilized more, significantly contributing to  
10 improving the dielectric loss and electromechanical coupling coefficient for the provision of excellent BaTiO<sub>3</sub> - PbTiO<sub>3</sub> series single crystal in various properties, as well as for the provision of piezoelectric material having a small ratio of lead  
15 content, which is particularly excellent in piezoelectric property and productivity.